

INTERNATIONAL SEARCH REPORT

 International application No.
 PCT/JP03/12563

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl.⁷ C23C16/509, H01L21/205, H05H1/46, B01J19/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl.⁷ C23C16/50-16/517, H01L21/205, H05H1/46

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
<u>X</u> Y A	EP 0955665 A2 (MITSUBISHI HEAVY INDUSTRIES, LTD.), 10 November, 1999 (10.11.99), Claims; examples & JP 2961103 B1 Claims; examples & AU 9912141 A & US 2002/000201 A1 & DE 69906180 E	<u>1, 2, 3, 11, 12</u> 4, 6 5, 7-10
<u>X</u> Y A	JP 2000-58465 /A (MITSUBISHI HEAVY INDUSTRIES, LTD.), 25 February, 2000 (25.02.00), Par. Nos. [0012] to [0020], [0043] to [0046] & EP 961307 A1 & AU 9917371 A & KR 99087863 A	<u>1, 2, 3, 11, 12</u> 4, 6 5, 7-10

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
25 December, 2003 (25.12.03)Date of mailing of the international search report
20 January, 2004 (20.01.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

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INTERNATIONAL SEARCH REPORT

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2816365 B2 (Kabushiki Kaisha Yuha Mikakuto Seimitsu Kogaku Kenkyusho), 27 October, 1998 (27.10.98), Column 13, lines 34 to 47; Fig. 1 (Family: none)	4, 6
A	JP 2001-274099 A (MITSUBISHI HEAVY INDUSTRIES, LTD.), 05 October, 2001 (05.10.01), Full text & US 2001/021422 A1 & AU 200111108 A & EP 1134773 A & KR 2001091880 A & TW 507256 A	1-12
A	JP 2001-7028 A (MITSUBISHI HEAVY INDUSTRIES, LTD.), 12 January, 2001 (12.01.01), Full text & WO 00/79844 A1 & AU 200052496 A & EP 1107653 A1 & KR 2001072478 A & TW 451306 A & US 6417079 B1	1-12
A	JP 2001-321662 A (Nihon Koshuha Co., Ltd.), 20 November, 2001 (20.11.01), Full text (Family: none)	1-12